

WHAT IS CLAIMED IS

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1. An acceptance control apparatus, used in a radio communication system, comprising:

- 10 a receiving part which receives a connection request signal and a required communication quality value from a new terminal which newly requires connection;  
a request quality holding part which holds only required communication quality values on terminals for each of which connection has been accepted; and  
a determination part which determines  
15 acceptance/refusal of the connection for the new terminal; wherein:

- said determination part obtains an available communication quality value from the required communication quality values of the terminals currently on  
20 connection held by said request quality holding part and a maximum permissible communication quality value of said radio communication system, and, when said available communication quality value satisfies the required communication quality value of the new terminal, said  
25 determination part accepts the connection for said new terminal.

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2. An acceptance control apparatus, used in a radio communication system, comprising:

a receiving part which receives a connection

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request signal and a required communication quality value from a new terminal which newly requires connection;

5 a quality measuring and holding part which obtains a communication quality type of the required communication quality of the new terminal received by said receiving part, measures the communication quality values on the terminals currently on connection for the thus-obtained communication quality type, and holds the measurement values; and

10 a determination part which determines acceptance/refusal of the connection for the new terminal; wherein:

15 said determination part calculates an available communication quality value from the measurement values of the communication quality type held by said quality measuring and holding part and a maximum permissible communication quality value of said radio communication system, and, when said available communication quality value satisfies the required communication quality value  
20 of the new terminal, said determination part accept the connection for said new terminal.

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3. An acceptance control apparatus, used in a radio communication system, comprising:

30 a receiving part which receives a connection request signal and a required communication quality value from a new terminal which newly requires connection;

a request quality holding part which holds only required communication quality values on terminals for each of which connection has been accepted; and

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10026814-122701

a quality measuring and holding part which obtains a communication quality type of the required communication quality of the new terminal received by said receiving part, measures the communication quality values on the terminals currently on connection for the thus-obtained communication quality type, and holds the measurement values; and

a determination part which determines acceptance/refusal of the connection for the new terminal; wherein:

said determination part calculates an available communication quality value from the required communication quality values of the terminals currently on connection for the terminal for each of which the measurement value is more superior than the required value held by said request quality holding part, the measurement values of the communication quality type for the terminals for each of which the measurement value is less superior than the required value held by said quality measuring and holding part, and a maximum permissible communication quality value of said radio communication system, and;

when said available communication quality value satisfies the required communication quality value of the new terminal, said determination part accept the connection for said new terminal.

4. The acceptance control apparatus as claimed in claim 1, wherein:

a throughput value is employed as the communication quality value for determining

acceptance/refusal of connection of the new terminal.

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5. The acceptance control apparatus as claimed  
in claim 1, wherein:

a delay time value is employed as the  
communication quality value for determining  
10 acceptance/refusal of connection of the new terminal.

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6. The acceptance control apparatus as claimed  
in claim 2, wherein:

a throughput value is employed as the  
communication quality value for determining  
acceptance/refusal of connection of the new terminal.  
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7. The acceptance control apparatus as claimed  
25 in claim 2, wherein:

a delay time value is employed as the  
communication quality value for determining  
acceptance/refusal of connection of the new terminal.

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8. The acceptance control apparatus as claimed

10026814-122701

in claim 3, wherein:

a throughput value is employed as the communication quality value for determining acceptance/refusal of connection of the new terminal.

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9. The acceptance control apparatus as claimed  
10 in claim 3, wherein:

a delay time value is employed as the communication quality value for determining acceptance/refusal of connection of the new terminal.

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10. An acceptance control method, used in a radio communication system, comprising the steps of:

20 a) receiving a connection request signal and a required communication quality value from a new terminal which newly requires connection;

b) holding only required communication quality values on terminals for each of which connection has been  
25 accepted; and

c) determining acceptance/refusal of the connection for the new terminal;

wherein:

said step c) obtains an available communication  
30 quality value from the required communication quality values on the terminals currently on connection held by said request quality holding part and a maximum permissible communication quality value of said radio

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communication system, and, when said available communication quality value satisfies the required communication quality value of the new terminal, said step c) accepts the connection for said new terminal.

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- 10 11. An acceptance control method, used in a radio communication system, comprising the steps of:
- a) receiving a connection request signal and a required communication quality value from a new terminal which newly requires connection;
- 15 b) obtaining a communication quality type of the required communication quality of the new terminal received by said step a), measuring the communication quality values on terminals currently on connection for the thus-obtained communication quality type, and holding the thus-obtained measurement values; and
- 20 c) determining acceptance/refusal of the connection for the new terminal;

wherein:

- said step c) calculates an available communication quality value from the measurement values of
- 25 the communication quality type held by said step b) and a maximum permissible communication quality value of said radio communication system, and, when said available communication quality value satisfies the required communication quality value of the new terminal, said step
- 30 c) accepts the connection for said new terminal.

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12. An acceptance control method, used in a radio communication system, comprising the steps of:

- a) receiving a connection request signal and a required communication quality value from a new terminal
- 5 which newly requires connection;
- b) holding only required communication quality values on terminals for each of which connection has been accepted;
- c) obtaining a communication quality type of the
- 10 required communication quality of the new terminal received by said step a), measuring the communication quality values on terminals currently on connection for the thus-obtained communication quality type, and holding the thus-obtained measurement values; and
- 15 d) determining acceptance/refusal of the connection for the new terminal;

wherein:

- said step d) calculates an available communication quality value from the required
- 20 communication quality values of the terminals currently on connection for the terminal for each of which the measurement value is more superior than the required value held by said step b), the measurement values of the communication quality type for the terminal for each of
- 25 which the measurement value is less superior than the required value held by said step c), and a maximum permissible communication quality value of said radio communication system, and;

- when said available communication quality value
- 30 satisfies the required communication quality value of the new terminal, said step d) accepts the connection for said new terminal.

10026814-122701

13. The acceptance control method as claimed in claim 10, wherein:

a throughput value is employed as the communication quality value for determining acceptance/refusal of connection of the new terminal.

10 14. The acceptance control method as claimed in claim 10, wherein:

a delay time value is employed as the communication quality value for determining acceptance/refusal of connection of the new terminal.

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15. The acceptance control method as claimed in claim 11, wherein:

20 a throughput value is employed as the communication quality value for determining acceptance/refusal of connection of the new terminal.

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16. The acceptance control method as claimed in claim 11, wherein:

a delay time value is employed as the communication quality value for determining acceptance/refusal of connection of the new terminal.

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17. The acceptance control method as claimed in claim 12, wherein:

- a throughput value is employed as the communication quality value for determining  
5 acceptance/refusal of connection of the new terminal.

10 18. The acceptance control method as claimed in claim 12, wherein:

- a delay time value is employed as the communication quality value for determining  
acceptance/refusal of connection of the new terminal.

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